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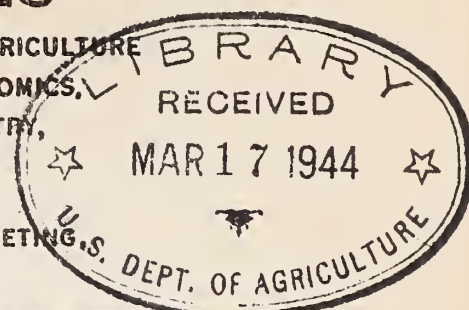


# COTTON LITERATURE

## SELECTED REFERENCES

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COMPILED BY EMILY L. DAY, LIBRARY SPECIALIST IN COTTON MARKETING,  
AGRICULTURAL MARKETING SERVICE, WASHINGTON, D. C.



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COTTON LITERATURE is compiled mainly from material received in the Library of the U. S. Department of Agriculture.

Copies of the publications listed herein can not be supplied by the Department except in the case of publications expressly designated as issued by the U. S. Department of Agriculture. Books, pamphlets, and periodicals mentioned may ordinarily be obtained from their respective publishers or from the Secretary of the issuing organization. Many of them are available for consultation in public or other libraries.

"Abbreviations Used in the Department of Agriculture for Titles of Publications" (Miscellaneous Publication No. 337) is the authority for abbreviations used in COTTON LITERATURE.



PRODUCTIONBotany

937. Anderson, Donald B. The internal temperatures of cotton bolls. Amer. Jour. Bot. 27(1): 43-51. Jan. 1940. (Published by Botanical Society of America, Free Press Interstate Printing Corp., Burlington, Vt.) 450 Am36

Literature cited, p. 51.

"In view of the significant influence of temperature upon the wall structure of the cotton hair it seems important to know something about the temperatures within the boll and of the relation that these internal temperatures bear to the air temperatures outside the boll. The investigation described in this paper was undertaken with these objectives."

938. Frey-Wyssling, A. The submicroscopic structure of cell walls. Sci. Prog. 34(134): 249-262. Oct. 1939. (Published by Edward Arnold & Co., Maddox St., W., London, England) 472 Sci22  
References, pp. 261-262.

Lecture delivered on March 9, 1939, at University College, University of London.

"A report of a lecture summarising recent work by the author and other botanists on the properties of cell walls (especially their anisotropy), methods of microscopic and X-ray investigation, the micellar theory, and types of membrane structures and the growth of cell walls. - C." - Textile Inst. Jour. 31(1): A45. Jan. 1940.

939. Hess, Kurt. Neue forschungen über die entwicklung der pflanzlichen zellwand (Untersuchungen an wachsenden baumwollhaaren) Klepzig's Textil-Zeitschrift 42(43): 629-632. Oct. 25, 1939. (Published by Verlag L. A. Klepzig, Leipzig, Cl, Germany) Bur. Stand.

New researches on the development of plant cell walls (Study of growing cotton hairs)

"Photographs showing the development of cotton bolls and hairs are given and the results of physical and chemical investigations of the hair wall are discussed. The cotton hair in the boll

increases in length during the first 20 to 25 days and this period is followed by one in which the hair wall thickens without increasing further in length. Hairs in the first period of development give an X-ray diagram showing two characteristic rings which are attributed to a primary non-cellulosic substance. Ripe hairs give cellulose diagrams. The young hairs contain wax, phosphatide, protein and pectin materials and when these are removed by extraction the young hairs show the same X-ray diagrams and double refraction, swelling and viscosity effects as ripe hairs. Cellulose, therefore, appears to be present in the primary wall but not in the regular lattice arrangement that produces cellulose X-ray diagrams. Possible mechanisms of cellulose formation in the cotton hair are discussed and it is pointed out that the non-cellulosic substance may be an auxiliary substance for cellulose formation or may merely serve to prevent crystallisation of cellulose in the primary wall. The cellulose and non-cellulosic substance may exist in the young hair walls in the form of a complex covered with wax. - C." - Brit. Cotton Indus. Res. Assoc. Sum. Cur. Lit. 20(2): 37. Jan. 31, 1940.

940. Hess, Kurt, Wergin, Wilhelm, Kiessig, Heinz, Engel, Werner, and Philippoff, W. Untersuchungen über die ontogenese und den chemischen aufbau der pflanzlichen zellwand. *Naturwissenschaften* 27 (37): 622-628. Sept. 15, 1939. (Published at Linkstrasse 22/24, Berlin, W 9, Germany) 474 N213

Footnote references.

Studies on the ontogenesis and chemical structure of the vegetable (cotton) cell wall.

"A review of development and structure of cotton fibres, differences between the phases of length growth and thickness growth; the change of cellulose from unordered form to regular mol. arrangement as found by X-ray and the presence of waxy material in the young fibre. The qualities of the primary and secondary wall materials are compared in some detail. Whereas in the primary stage (length growth) waxes, phosphatides, protein, etc., are formed in the walls, the second stage is primarily one of formation of cellulose lattice. The primary cellulose, present in small amts., is

not in lattice form owing to the presence of the admixts.; removal of the latter spontaneously causes change to lattice form (X-ray, double refraction, swelling and viscosity evidence). - C." - Textile Res. 10(5): 207. Mar. 1940.

941. Indore (city). Institute of plant industry. Progress report...for the year ending 31st May 1939. Genetics and botany section. 62pp., processed. Indore, [1939] 107.5 In2D  
Cotton, pp. 1-19, 24, 25-35.

942. El sistema radicular de la planta de algodón. Argentine Republic. Junta Nacional del Algodón. Boletín Mensual no. 56, pp. 873-874. Dec. 1939. (Published in Buenos Aires, Argentina) 72.9 Ar3  
The radicular system of the cotton plant.

See also Items nos. 1204, 1212, 1217, 1219.

#### Genetics and Plant Breeding

943. Harland, S. C. A história da evolução dos algodões cultivados do novo mundo. Reunião Sul-Americana de Botanica. Anais 1: 215-225. Oct. 12-19, 1938. (Published by Ministerio de Agricultura, Rio de Janeiro, Brazil) 451 R31  
History of the evolution of the cultivated cottons of the new world.

944. Harland, S. C. New polyploids in cotton by the use of colchicine. Trop. Agr. [Trinidad] 17(3): 53-54. Mar. 1940. (Published by Imperial College of Tropical Agriculture, Trinidad, B. W. I.) 26 T754

945. Varuntsjan, I. [Outlines and prospects of breeding work with American cotton in Transcaucasia.] Sovetskii Khlopok no. 1, pp. 55-62. 1937. (Published in Moskva, U. S. S. R.) Libr. Cong. SB245 .S6

In Russian.

"The new varieties produced by the Azerbaijan cotton station have entirely replaced the earlier grown varieties. Of these No. 915, produced by selection from the local strain King Karajazskii, is early, cold-resistant, highly wilt-resistant, with a very large boll and lint 28-29 mm.; its defect is insufficient drought resistance. Another strain, No. 01064, a segregate from a



natural hybrid of King Karajazskii, exceeds the local standard by 20 per cent. in yield and by 2 mm. in lint length, has extremely large bolls, and has great wilt resistance." - Empire Cotton Growing Rev. 15(1): 83. January 1938.

See also Items nos. 941, 1204, 1205, 1219.

### Agronomy

946. Anthony, J. L., Pitner, John, and Dorman, Clarence. Neutral versus acid fertilizers for cotton. Miss. Farm Res. 3(2): 3. Feb. 1940. (Published by Mississippi Agricultural Experiment Station, State College, Miss.)
947. Behl, J. S., and Hussain, Syed Zahir. Experiments with desi cotton varieties at the Gurdaspur agricultural station. India. Punjab Agr. Dept. Seasonal Notes 18a(2): 54-55. Oct. 1939. (Published in Lahore, Punjab, India) 22 In272
948. Brackeen, L. O. Alabama's best cotton varieties. Prog. Farmer (Ga.-Ala.-Fla. ed.) 55(3): 73. Mar. 1940. (Published at 821 North Nineteenth St., Birmingham, Ala.) 6 P945G
949. Chester, K. Starr. What about seed treatments for cotton? Cotton and Cotton Oil Press 41(6): 38, 42-43. Mar. 16, 1940. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822  
Tests at experiment stations with treated cottonseed for planting are reported.
950. Conselhos aos plantadores de algodão. Minas Gerais. Revista da Produção no. 14, p. 73. Aug.-Dec. 1938. (Published in Minas Gerais, Brazil) 9.2 M66R  
Advice to cotton planters.
951. Cotton grower. Carolina Co-op. 18(3): 11. Mar. 1940. (Published by the Carolina Co-operator Publishing Co., corner of Fayetteville and Cabarrus Sts., Raleigh, N. C.) 72.8 N81  
A 4-H Club boy in North Carolina picked 960 lbs. of lint, nearly two bales from one acre last year.



952. Cotton varieties for one-variety areas. Prog. Farmer (Tex. ed.) 55(3): 16. Mar. 1940. (Published at 1105 Southland Life Annex, Dallas, Tex.) 6 T311  
Recommendations of the Advisory Cotton Seed Committee of the State-Wide Cotton Committee of Texas are given.
953. Dates, Carlos E. El cultivo de una sola variedad de algodón en la provincia de Santiago del Estero. Sus ventajas economicas. La variedad acala. La Cosecha 2(20): 3. Feb. 1940. (Published at Av. R. Saenz Peña 943, Buenos Aires, Argentina) 9 C82  
Cultivation of a single variety of cotton in the province of Santiago del Estero. Its economical advantages. The acala variety.
954. Egypt gives Arizona long-staple cotton plenty competition. Ariz. Farmer Prod. 18(24): 11. Feb. 3, 1940. (Published at 313 North Third St., Phoenix, Ariz.) 6 Ar44  
Comment on the cotton situation in Arizona.
955. Estado de los cultivos de algodón en el país. Gaceta Algodonera 16(192): 1-3. Jan. 31, 1940. (Published at Reconquista 331, Buenos Aires, Argentina) 72.8 G11  
The state of cultivation of cotton in the country (Argentina).
956. Florida cotton seed sought by planters. Fla. Grower 48(3): 14. Mar. 1940. (Published in Tampa, Fla.) 80 F6622  
Florida sea island cottonseed for planting purposes recently was shipped to Arkansas. The advantages of successful sea island cotton production in Arkansas are described.
957. Hamblin, I. E. Winter preparation of cotton seed-bed most profitable. Miss. Farm Res. 3(2): 7. Feb. 1940. (Published by Mississippi Agricultural Experiment Station, State College, Miss.)
958. Killough, D. T. The technique of conducting and analyzing variety tests of cotton. Cotton Ginners' Jour. 11(6): 11-12, 14, 20, 22. Mar. 1940. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824

959. Mallo, Roberto G. Observaciones sobre la semilla de algodón destinada a la siembra. Argentine Republic. Junta Nacional del Algodón. Boletín Técnico no. 7; 26pp. Buenos Aires, 1939.  
72.9 Ar3B  
Observations on cottonseed destined for planting.
960. Maltsev, A. M., and others. [Outlines and prospects of cotton breeding in Central Asia.] Sovetskii Khlopok no. 1, pp. 47-54. 1937. (Published in Moskva, U. S. S. R.) Libr. Cong. SB245 .S6  
In Russian.  
"The great improvement in output of the new varieties such as '8517', that combine increased yield with greater ginning outturn and lint length, is emphasized. The new strains also contain 1-2 per cent. more oil in the seeds." - Empire Cotton Growing Rev. 15(1): 83. January 1938.
961. Richardson, T. C. Keep talking--but get busy. Farm and Ranch 59(3): 28-29. Mar. 1940. (Published at 3306 Main St., Dallas, Tex.)  
6 T31  
Cotton cultivation and insect control methods are noted.
962. Rogers, C. H. It pays to treat cotton seed. Prog. Farmer (Tex. ed.) 55(4): 18. Apr. 1940. (Published at 1105 Southland Life Annex, Dallas, Tex.)  
6 T311
963. Russo, Giuseppe. La disinfezione dei semi di cotone. Bollettino della Cotoniera 34(11-12): 661-664. Nov.-Dec. 1939. (Published at Via Borgonuovo, 11, Milano, Italy) 304.8 B63  
Disinfection of cottonseed.
964. Shantz, H. L. Agricultural regions of Africa. Part I.--Basic factors. Econ. Geog. 16(1): 1-47. Jan. 1940. (Published by Clark University, Worcester, Mass.) 278.8 Ec7  
To be continued.  
Cultivation of cotton and other crops in Africa is described.

965. 1600 bales on 1600 acres. Farm Jour. and Farmer's Wife 63(9): 31. Sept. 1939. (Published at Washington Square, Philadelphia, Pa.) 6 F2212  
The record of Will Knight (Caddo parish, Louisiana) is reported.
966. Smith, J. Lee. Seasonal field crop suggestions. Tips for better corn, cotton, peanuts, and tobacco. Fla. Grower 48(3): 13. Mar. 1940. (Published in Tampa, Fla.) 80 F6622
967. [State-wide cotton committee of Texas. Texas advisory cotton planting seed committee] Texas committee on planting seed makes its report. Seeks not "better" cotton but varieties best suited to profit. Cotton Trade Jour. 20(11): 1, 8. Mar. 16, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Varieties recommended are listed by areas.
968. Stuckey, H. P. Cottons for Georgia. Prog. Farmer (Ga.-Ala.-Fla. ed.) 55(3): 64. Mar. 1940. (Published at 821 North Nineteenth St., Birmingham, Ala.) 6 P945G  
Varieties recommended for Georgia are noted.
969. Stuckey, H. P. Treat cotton seed. Prog. Farmer (Ga.-Ala.-Fla. ed.) 55(3): 64. Mar. 1940. (Published at 821 North Nineteenth St., Birmingham, Ala.) 6 P945G  
Methods of treating are noted.
970. Suffa, Curt. Deutsche baumwolle. Ein erfolgreicher anbauversuch der Preussischen landwirtschaftlichen versuchs- und forschungsanstalten in Landsberg/Warthe. Kosmos 37(2): 27-28. Feb. 1940. (Published by Franckh'sche Verlagshandlung, Stuttgart, Germany) 474 K842  
German cotton. A successful cultivation experiment of the Prussian Experimental and Research Institution in Landsberg/Warthe.
971. Taranovskaia, M. G., and Gorianskii, M. M. [Cultivation of cotton on complex solonetz soils.] Sovetskii Khlopok no. 1, pp. 30-36. Jan. 1938. (Published in Moskva, U. S. S. R.) Libr. Cong. SB245 .S6  
In Russian.  
"The most effective method of cultivation of solonetz soils consists in complex application



of farm manure and gypsum, with progressive deepening of the arable layer (1-1.5 cm. per yr.). Application of gypsum increases the quantity of water-resistant aggregate in the soil; the filtering power of the latter increases, as do the total porosity and (within certain limits) the water - absorbing capacity. The quantity of Na adsorbed decreases, which explains why gypsum-treated soils do not form a hard crust. Application of lime has but little influence on the crop yield of cotton. - A. Papineau-Couture." - Chem. Abs. 33(12): 4728. June 20, 1939.

972. Treated cottonseed yields higher than untreated. Prog. Farmer (Miss. Valley ed.) 55(1): 49. Jan. 1940. (Published at Cotton Exchange Bldg., Memphis, Tenn.) 6 So81
973. U. S. Dept. of agriculture. Agricultural marketing service; Planting is discussed on radio by Marketing service spokesmen. Five points of good planting practice are outlined as Spring comes on. Cotton Trade Jour. 20(12): 7, 8. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Extract in Cotton Digest 12(25): 14. Mar. 23, 1940; Cotton Ginners' Jour. 11(7): 50. Apr. 1940.
974. York, H. A. Cotton variety tests. Outlying cooperative cotton variety tests, Southeast Yazoo-Mississippi Delta--1939. Miss. Farm Res. 3(2): 7. Feb. 1940. (Published by Mississippi Agricultural Experiment Station, State College, Miss.)

See also Items nos. 985, 988, 997, 999, 1003, 1007, 1056, 1060, 1062, 1070, 1071, 1073, 1081, 1114, 1127, 1172, 1183, 1184, 1204, 1206, 1207, 1208, 1209, 1210, 1212, 1214, 1217, 1218, 1219, 1220, 1230, 1238.

### Diseases

975. Bouthiaux, S. Deux maladies graves du cotonnier en Afrique. Revue de Botanique Appliquée et d'Agriculture Tropicale 19(220): 865-870. Dec. 1939. (Published at 57, Rue Cuvier, Paris (V<sup>e</sup>) France) 26 R323  
Bibliography, p. 870.  
Two bad diseases of the cotton plant in Africa.  
The diseases discussed are blackarm and leaf curl.



976. Hansford, C. G. Vascular diseases of cotton in Uganda. East African Agr. Jour. 5(4): 279-282. Jan. 1940. (Published by the Government Printer, Nairobi, Kenya Colony, East Africa) 24 Ea74
977. Neal, D. C. Cotton wilt and root-knot nematode. Better Crops with Plant Food 24(2): 36-37. Feb. 1940. (Published by American Potash Institute, Inc., Investment Bldg., Washington, D. C.) 6 B46
978. Prego, Antonio J., and Westergaard, Guillermo. Las plagas del algodono en colonia Mascías (Santa Fe). Argentine Republic. Junta Nacional del Algodon. Boletin Mensual no. 56, pp. 859-872. Dec. 1939. (Published in Buenos Aires, Argentina) 72.9 Ar3  
Pests [diseases and insects] of the cotton plant in Mascías colony (Santa Fe).
979. Viégas, A. P. A murcha do algodoeiro. Revista de Agricultura 14(11-12): 449-556. Nov.-Dec. 1939. (Published at Piracicaba, São Paulo, Brazil) 9.2 R324  
Literature cited, pp. 501-556.  
Wilt of the cotton plant.

See also Items nos. 1204, 1209, 1212, 1217.

### Insects

980. Butler, Eugene. Late planting an important factor in pink bollworm control. Acco Press 18(3): 7. Mar. 1940. (Published by Anderson, Clayton & Co., Houston, Tex.) 6 Ac2
981. Cooper, J. M. He won the war on cotton insects. Farm and Ranch 59(3): 15. Mar. 1940. (Published at 3306 Main St., Dallas, Tex.) 6 T31
982. Cotton flea hopper in Oklahoma. Farm and Ranch 59(3): 29. Mar. 1940. (Published at 3306 Main St., Dallas, Tex.) 6 T31
983. Cotton insect pests. Tex. Citric. and Farming 16(9): 18. Mar. 1940. (Published by E. C. Watson Publishing Co., 210 East Van Buren St., Harlingen, Tex.) 80 T31  
Control of the pink bollworm is urged.

984. Davis, William E. How we licked the boll weevil. Cotton and Cotton Oil Press 41(6): 40-41. Mar. 16, 1940. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822
985. Greater cotton profits from greater cotton yields per acre. Cotton and Cotton Oil Press 41(5): 5. Mar. 2, 1940. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822  
The necessity for insect control is urged.
986. Hibernating weevils killed by weather. Cotton Digest. 12(24): 4. Mar. 16, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822
987. Kleberg, Richard M. The pink bollworm vs. the United States of America. Acco Press 18(3): 1-3. Mar. 1940. (Published by Anderson, Clayton & Co., Houston, Tex.) 6 Ac2  
Radio address over stations of the National Broadcasting Company, on the Grange Hour, from Washington, D. C., February 17, 1940.
988. Later planting hard on pink bollworm. Prog. Farmer (Tex. ed.) 55(3): 26. Mar. 1940. (Published at 1105 Southland Life Annex, Dallas, Tex.) 6 T311
989. Maranhão, Zilcar C. Como combater as três maiores e mais terríveis pragas do algodoeiro. O Solo 31(1): 41-48. 1939. (Published by Acadêmicos de Agronomia, Piracicaba, Brazil) 9.2 So4  
How to combat three greater and more terrible pests of the cotton plant.
990. Ohlendorf, W. La lagarta rosada en Mejico. Argentine Republic. Junta Nacional del Algodon. Boletín Técnico no. 3, 77pp. Buenos Aires, 1938. 72.9 Ar3B  
The pink bollworm in Mexico.  
Translation of Department Bulletin 1374 of the U. S. Department of Agriculture.
991. Otanes, Faustino Q., and Butac, Filomeno, L. Cotton pests in the Philippines. Philippine Jour. Agr. 10(4): 341-371. Fourth Quarter 1939. (Published by the Department of Agriculture and Commerce, Manila, P. I.) 25 P543

992. The pink boll worm. Cotton Trade Jour. 20(13): 2. Mar. 30, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
An editorial.
993. Pink bollworm marches on. Prog. Farmer (Miss. Valley ed.) 55(1): 5. Jan. 1940. (Published at Cotton Exchange Bldg., Memphis, Tenn.) 6 S681  
Editorial.
994. [State-wide cotton committee of Texas] Insect control work essential. Cotton Ginners' Jour. 11(7): 34-35, 45-46. Apr. 1940. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824  
Extracts from a radio broadcast.
995. U. S. Dept. of agriculture. Bureau of entomology and plant quarantine. Report of the chief...1939. 117pp. Washington, 1939.  
Partial contents: Cotton insect investigations, p. 67; Boll weevil, pp. 67-70; Soil injury from calcium arsenate and cryolite, p. 70; Cotton flea hopper, p. 70; Hemipterous insects, pp. 70-71; Bollworm, pp. 71-72; Pink bollworm, pp. 72-73; Root aphids, p. 73; Cotton leaf worm, pp. 73-74; Varietal resistance of cotton to insects, p. 74; Pink bollworm control, pp. 74-79; Wild cotton eradication, pp. 79-80; Parasites of cotton insects, p. 90.
- See also Items nos. 961, 978, 1056, 1172, 1204, 1206, 1209, 1217, 1218, 1226.

### Farm Engineering

996. Argentina studies cotton picker use. Shortage of labor in cotton areas makes expansion dependent upon harvesting question. Jour. Com. 184 (14176): 2. Mar. 11, 1940. (Published at 63 Park Row, New York, N. Y.) 286.8 J82
997. Ensayose una clasificadora mecanica de semilla de algodón. Argentine Republic. Junta Nacional del Algodón. Boletín Mensual no. 56, pp. 885-887. Dec. 1939. (Published in Buenos Aires, Argentina) 72.9 Ar3  
Testing a mechanical cottonseed grader.



998. Reed, I. F. Watch that cotton planter. Prog. Farmer (Tex. ed.) 55(4): 23. Apr. 1940. (Published at 1105 Southland Life Annex, Dallas, Tex.) 6 T311

Characteristics of a good planting machine are noted.

999. Smith, Harris P. That cotton revolution. Country Gent. 110(4): 14, 35-36. Apr. 1940. (Published by the Curtis Publishing Co., Independence Square, Philadelphia, Pa.) 6 C833

The development of cotton-harvesting machines is noted. Varietal characteristics which influence the efficiency of the machines are described.

### Farm Management

1000. Brown, Carroll. Seasonal shifts in the index of agricultural cash income in Texas. Tex. Business Rev. 14(1): 4-7. Feb. 28, 1940. (Published by Bureau of Business Research, University of Texas, Austin, Tex.) 280.8 T312

"Cotton, because of its long standing as the chief agricultural product of Texas, has brought about the major portion of the change. From its contribution of approximately 67 per cent of the income in 1927, cotton has gradually declined to the point of contributing only 35 per cent of the income in 1939."

1001. Let's face the facts. Prog. Farmer (Tex. ed.) 55(4): 3. Apr. 1940. (Published at 1105 Southland Life Annex, Dallas, Tex.) 6 T311

Editorial on address by I. W. Duggan before American Farm Economic Association in Philadelphia stating that "with a reduction in the acreage of cotton, which requires a heavy expenditure of hand labor, our farmers can and should handle more land in pastures and feed and a larger acreage per farm."

1002. Poe, Clarence. Friendly talks from Longview farm. 1930-1940 "return to livestock" follows 1880-1930 retreat from livestock. Prog. Farmer (Tex. ed.) 55(4): 74. Apr. 1940. (Published at 1105 Southland Life Annex, Dallas, Tex.) 6 T311

Changes in cotton and livestock production in the Cotton Belt are noted.



1003. Progressive farmer. How good a cotton grower are you? Prog. Farmer (Tex. ed.) 55(4): 12, 55. Apr. 1940. (Published at 1105 Southland Life Annex, Dallas, Tex.) 6 T311  
Includes a score card for Texas cotton growers.
1004. Stanford, J. E. Practical and approved methods that will assure greater profits from cotton. South. Agr. 70(4): 7. Apr. 1940. (Published at 1523 Broadway, Nashville, Tenn.) 6 So83
1005. [Walton, T. O.] Production costs in Texas can be, must be, reduced. Texas A. & M. president tells convention more efficient production vital. Cotton Trade Jour. 20(13): 1, 9. Mar. 30, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Extracts from address before the 29th annual convention, Texas Cotton Association, Galveston, March 29-30, 1940.  
Also in Cotton Digest 12(26): 16-17. Mar. 30, 1940.
1006. Yang, W. Y., and Pan, H. S. Cost of producing cotton and other farm products in Northern Hupeh, China. Nanking Univ. Col. Agr. and Forestry Res. Bul. (Chengtu series) no. 3, 184pp. Nanking, 1939. C 107 N15R  
In Chinese. English summary, pp. 125, 127, 129, 131, 133, 135, 137.

#### Production Credit

1007. El banco de la nacion otorgara creditos para adquirir aparatos desinfectadores de semilla de algodón. Argentine Republic, Junta Nacional del Algodón, Boletín Mensual no. 56, pp. 881-882. Dec. 1939. (Published in Buenos Aires, Argentina) 72.9 Ar3  
The national bank [of Argentina] will grant credit for obtaining cottonseed disinfecting apparatus.
1008. Cotton farmers heaviest borrowers. Farm and Ranch 59(3): 34. Mar. 1940. (Published at 3306 Main St., Dallas, Tex.) 6 T31  
"A study of farm credit in Hempstead county, Arkansas, shows that 'high credit users had a

greater percentage of their enterprises devoted to one crop, cotton, than those using no credit."

### Cotton Land Resources

1009. Crosby, M. A. Types of farming in Mississippi. 126pp., processed. Washington, U. S. Department of agriculture, Bureau of agricultural economics, 1940.

Includes a brief history of cotton production in Mississippi and descriptions of the areas in which cotton is grown.

### Farm Social Problems

1010. Farm laws cause of unemployment. Correspondent finds many tenants turned out. Jour. Com. [N. Y.] 183(14155): 14. Feb. 14, 1940. (Published at 63 Park Row, New York, N. Y.) 286.8 J82

1011. Shugg, Roger W. Origins of class struggle in Louisiana. A social history of white farmers and laborers during slavery and after, 1840-1875. 372pp. University, Louisiana state university press, 1939. 277.033 Sh9  
Bibliography, pp. 332-363.  
Conditions on small farms and on plantations are described.

### Cooperation in Production (One-Variety Communities)

See Items nos. 952, 953, 1061, 1100.

### PREPARATION

### Ginning

1012. Allred, Charles E., and Raskopf, Benjamin D. Cotton ginning equipment and practices in Tennessee. Tenn. Agr. Expt. Sta. Agr. Econ. and Rural Sociol. Dept. Monog. 101, 34pp., processed. Knoxville, 1940. 173.2 W89C6  
Bibliography, pp. 29-30.
1013. Bennett, Charles A., and Gerdes, Francis L. Some regional influences on ginning problems and methods. Cotton Ginners' Jour. 11(7): 13, 16. 18-19, 42. Apr. 1940. (Published by Texas

Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824

Report of a "preliminary study of the ginning problems, machinery and operating practices in two areas differing widely in climatic conditions, type of soil, and production methods... by the U. S. Cotton Ginning Laboratory."

1014. [Continental gin company] Roll density indicator. Cotton Ginners' Jour. 11(6): 9-10. Mar. 1940. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824

The instrument is described.

Also in Cotton and Cotton Oil Press 41(6): 18, 43. Mar. 16, 1940.

1015. Kennedy, J. R. The ginner and the cotton improvement program. Cotton Ginners' Jour. 11(7): 20, 22, 32. Apr. 1940. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824

Services of the U. S. Dept. of Agriculture available to ginnerers interested in cotton improvement are described.

1016. Lichte, F. E. Why a cotton ginning laboratory? Cotton Ginners' Jour. 11(7): 24, 26, 31. Apr. 1940. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824

Results of studies at the U. S. Cotton Ginning Laboratory at Stoneville, Miss. are noted.

1017. [Lummus cotton gin co.] Lummus announces new "automatic double moting gin." Cotton and Cotton Oil Press 41(5): 16. Mar. 2, 1940. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822

1018. Meloy, G. S. Some economic aspects of present cotton-gin emplacements. 6pp., processed. Washington, U. S. Dept. of agriculture, Agricultural marketing service, 1940.

Address at conference of State Cotton Gin Engineers, Cotton Ginning Laboratory, Stoneville, Miss., April 8, 9, and 10, 1940.

Table shows cotton-ginning capacity, by States, 1934-35 to 1938-39.



1019. Valley co-op ginner's ass'n annual meeting is held at Weslaco. Tex. Co-op. News 20(3): 3. Mar. 1940. (Published by Texas Co-operative Publishing Co., Inc., 1100 South Ervay St., Dallas, Tex.) 72.9 T315F

The Valley Co-operative Ginner's Association held its annual meeting at Weslaco, Texas, on February 27.

1020. Walters, R. G. Workmen's compensation rates in the cotton ginning industry. Cotton Ginner's Jour. 11(7): 12, 39. Apr. 1940. (Published by Texas Cotton Ginner's Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824  
Examples of rates are given.

See also Items nos. 1088, 1209, 1211.

### Baling

1021. Beveridge, E. A. Net weight trading for cotton is seen. Beveridge holds it matter of time--Fulmer bill still pending. Jour. Com. [N. Y.] 183(14155): 14, 15. Feb. 14, 1940. (Published at 63 Park Row, New York, N. Y.) 286.8 J82

1022. Community likes cotton bagging. Prog. Farmer (Tex. ed.) 55(3): 20. Mar. 1940. (Published at 1105 Southland Life Annex, Dallas, Tex.) 6 T311

Use of cotton bagging for wrapping bales, by the White Gin Association located five miles north of El Paso, Tex. is noted.

1023. [National cotton council of America] Resolutions. Net weight trade resolution caused only flurry of disagreement. Amer. Cotton Grower 5(10): 6-7. Mar. 1940. (Published at 535 Gravier St., New Orleans, La.) 72.8 AM32

The discussion at the recent meeting on the net weight resolution is reported.

1024. U. S. Dept. of agriculture. Division of marketing and marketing agreements. Mills agreeing to make allowance for lighter tare in purchasing cotton-wrapped cotton bales. U. S. Dept. Agr. Div. Mktg. and Mktg. Agreements MS-145, 5pp. [Washington] 1939. 1.94 Ad47Ms

See also Items nos. 1015, 1117, 1167.



MARKETINGGeneral

1025. Annual cotton handbook for daily cable records of American, East Indian and Egyptian crops, together with Liverpool, Brazilian, Continental, etc., statistics, containing much useful and reliable information for the cotton trade, season 1939-40. 349pp. London, Comtelburo ltd., 1939. 72.8 C73 69th 1939/40
1026. Kartar Singh, S. Review on cotton trade for the year 1938. India. Punjab Agr. Dept. Seasonal Notes 18a(2): 24-27. Oct. 1939. (Published in Lahore, Punjab, India) 22 In272

Demand and Competition

1027. Bahamas. Foreign textiles quotas. Gt. Brit. Bd. Trade Jour. 144(2254): 183. Feb. 15, 1940. (Published by H. M. Stationery Office, York House, Kingsway, London, W. C. 2, England) 256.03 T67J  
 "Order-in-Council, No. 34 of 1939, dated 28 December, made under the Importation of Textiles Quotas Act, 1934...fixes the total quantity of piece-goods of woven fabric containing 50 per cent. or more of cotton or of artificial silk or of cotton and artificial silk combined, which may be imported into the Bahamas during the year 1940."
1028. Brazilian cotton preferred to U. S. growths, in U. K. Liverpool house points way to easing of currency difficulties. Cotton Trade Jour. 20(13): 11. Mar. 30, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
 The textile industry in Great Britain prefers to buy cotton from Brazil instead of the United States because there are no difficulties of currency exchange.
1029. Brazilian cotton textiles filling Argentine market. Shipments from Brazil in 1939 far outstripped previous records. Cotton Trade Jour. 20(11): 6. Mar. 16, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

1030. Britain to buy more Brazil cotton. Cotton Digest 12(23): 3. Mar. 9, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822

1031. [Campbell, Angus D.] United Kingdom's cotton textile export trade plans are scanned. Cotton board officials would buy markets along with raw materials. Cotton Trade Jour. 20(10): 1, 8. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

From Manchester Guardian's annual business review.

1032. Cotton goods trends in 1939. Gray goods after irregular first half enjoyed record business in September--staple finished fabrics, denims, wash goods, percales, heavy goods--exports and imports. Amer. Wool and Cotton Eptr. 54(6): 19-20, 41, 43. Feb. 8, 1940. (Published by Frank P. Bennett & Co., Inc., 530 Atlantic Ave., Boston, Mass.) 304.8 W88

1033. The cotton industry. Statist 135(3235): 12-14. Feb. 24, 1940. (Published at 51 Cannon St., London, E. C. 4, England) 286.8 St2

An account of the effect of the European war upon the British cotton industry during the past half-year.

1034. Cotton stamps next. New plan patterned after food program, but it will cost \$250 to move equivalent of a bale. Business Week no. 545, pp. 17-18. Feb. 10, 1940. (Published by McGraw-Hill Publishing Co., Inc., 330 West 42nd St., New York, N. Y.) 280.8 Sy8

1035. Deering, Ferdie. In war or in peace distribution is the trouble. Farmer-Stockman 53(5): 140. Mar. 1, 1940. (Published at 500 North Broadway, Oklahoma City, Okla.) 6 Ok45

The government's "stamp plan for distributing cotton goods to relief families through regular trade channels" is discussed.

1036. Deutschlands handel mit dem Südosten und Osten geht weiter! Irak. Spinner und Weber 58(5): 1-2. Feb. 2, 1940. (Published in Pößneck, Germany) 304.8 Sp41

Germany's [textiles] trade with the Southeast and East increases. Iraq.

1037. [Grady, Henry F.] Purchase foreign goods or forfeit foreign markets. Assistant secretary of State Grady tells cotton convention. Cotton Trade Jour. 20(13): 1, 5, 7. Mar. 30, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Text of address entitled "Sound Commercial Policy and World Prosperity," delivered at 29th annual convention, Texas Cotton Association, Galveston, March 29-30, 1940, is given.  
Also in Cotton Digest 12(26): 3, 32-34. Mar. 30, 1940.
1038. Gray, E. M. Under-employment in cotton weaving; a recent wages census. Manchester School of Econ. and Social Studies 10(1): 62-76. 1939. (May be obtained from the Secretary, University Press, 8-10 Wright St., Manchester, 15, England) 280.8 M313  
"The results of an enquiry into the character and extent of under-employment which was conducted among a large body of weavers in five towns in Lancashire in November-December, 1938."
1039. Hipple, Jesse J. Rayon enters new phase. Expanding production to record heights, the industry also acquires competitors. Mag. Wall St. 65 (11): 681-683, 706. Mar. 9, 1940. (Published at 90 Broad St., New York, N. Y.) 286.8 M27  
Brief survey of the industry.
1040. Interesting fiber relations. Recent fundamental changes--comparative production and consumption statistics--rayon's competition with silk, cotton and wool--changes since 1926--lower cotton price vital. Amer. Wool and Cotton Rptr. 54(6): 27, 29, 39, 41. Feb. 8, 1940. (Published by Frank P. Bennett & Co., Inc., 530 Atlantic Ave., Boston, Mass.) 304.8 W88
1041. Japan allots fund for buying cotton. Shortage in China crop forces more imports, now ahead of 1939. Jour. Com. [N. Y.] 184(14181): 1, 11. Mar. 16, 1940. (Published at 63 Park Row, New York, N. Y.) 286.8 J82
1042. Kessler, Fritz. English cotton industry booms, Lancashire again export center. Cotton Trade Jour. 20(10): 1, 6. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214



1043. Lure of 'free money' and the 'stamp plan.' New form of disguised subsidy seems to please everybody--government, business, unemployed. Cost of selling \$7.50 worth of goods for \$5 to be borne ultimately by the taxpayers. U. S. News 8(9): 12. Mar. 1, 1940. (Published at 2201 M St., N. W., Washington, D. C.) 280.8 Un33a  
The stamp plan for disposing of surplus foodstuffs and cotton goods is described.
1044. Mexican textile industry. Textile Colorist 62(733): 11. Jan. 1940. (Published at Woolworth Bldg., 233 Broadway, New York, N. Y.) 306.8 T31  
"In 1933 Mexico had 176 cotton-manufacturing establishments employing about 42,500 workers."
1045. More cotton consumed last year. Consumption was 7,367,131 bales--spindle activity and cloth production--spindles in place--cotton exports and imports and outlook--New York exchange quotations. Amer. Wool and Cotton Rptr. 54(3): 21-22. Feb. 8, 1940. (Published by Frank F. Bennett & Co., Inc., 530 Atlantic Ave., Boston, Mass.) 304.8 W88
1046. Perkins, Milo. The challenge of under-consumption. 37pp., processed. Washington, U. S. Department of agriculture, 1940.  
Address at the Fourth Annual National Farm Institute, Des Moines, Iowa, February 24, 1940.  
Includes table showing estimated annual expenditures for cotton goods by non-relief families--1935-1936.
1047. The rayon trend and outlook. Statist 135(3235): 14-15. Feb. 24, 1940. (Published at 51 Cannon St., London, E. C. 4, England) 286.8 St2  
"The change-over from normal to war-time conditions scarcely presented the problems in the rayon trade which beset other sections of the textile industry. For one thing rayon has yet to be employed for actual war purposes on anything but a very small scale, despite the fact that specifications have been prepared for the production of uniform clothing in staple fibre and wool mixtures should the raw material position of textiles generally justify it. Moreover, extensive use could also doubtless be made of rayon and cotton mixture linings for the Services, which might lead to a lessening of the pressure on cotton yarn supplies."



1048. Schulte, Wilhelm. Deutschlands handel mit dem neutralen Westeuropa geht weiter! Spinner und Weber 58(6): 1-2; (7): 1-2; (8): 18, 27. Feb. 9, 16, 23, 1940. (Published in Pössneck, Germany) 304.8 Sp41  
Germany's [textile] trade with neutral West Europe increases!  
Belgium, Feb. 23, pp. 18, 27.  
Netherlands, Feb. 16, pp. 1-2.  
Switzerland, Feb. 9, pp. 1-2.
1049. [U. S. Dept. of agriculture] Mills active in United Kingdom, France and Italy, says survey. Department of agriculture finds lowered rate in Central Europe and Orient. Cotton Trade Jour. 20(10): 7. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1050. [U. S. Dept. of agriculture. Commodity exchange administration] Foreigners big buyers of American futures. Cotton Digest 12(25): 4. Mar. 23, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.32 C822
1051. White, Bennett S., Jr. The shrinking foreign market for United States cotton. Quart. Jour. Econ. 54(2): 255-276. Feb. 1940. (Published at the Harvard University Press, Randall Hall, Cambridge, Mass.)  
The writer traces and analyzes "the principal developments in the international cotton situation during the five or six years preceding the outbreak of the present European war." A summary of the contents of the article as given on p. 255 is as follows: "Introduction, 255. - Foreign consumption of American and other cottons, 256. - Factors affecting foreign mill consumption: industrial production and the demand for textiles, 256; substitute fibers, 259; other factors, 261. - Factors affecting the kind of cotton consumed: development of manufacturing in new areas, 263; trade regulations, 265; substitute fibers, 267; changes in relative supplies, 267. - Factors responsible for the change in relative supplies: agricultural and commercial policies of the United States, 269; prices for cotton and competing crops in foreign countries, 271; currency depreciation, 272; crop restriction and price-pegging, 272. - The situation summarized, 274."

1052. Wittmaack, Helmut. Zur frage des ausbaus der textilwirtschaft junger industrielande. IV. Die entwicklung der textilindustrie in Finnland. Weltwirtschaftliches Archiv 50(2): 461-488. Sept. 1939. (Issued by Kiel. Universitat. Institut für Weltwirtschaft. Published by Gustav Fischer, Jena, Germany) 286.8 W462

The improvement of the textile industry in young industrial countries. IV. Development of the textile industry in Finland.

Describes the development of the Finnish textile industry, and of its various branches, consumption and production of important textile products, and increase of production in the textile industry. In this last connection, the dependence of the industry on imports of raw materials and on partly and ready made imports, and Germany's place on the Finnish textile market are taken up.

See also Items nos. 1025, 1026, 1053, 1072, 1082, 1092, 1097, 1099, 1101, 1165, 1168, 1174, 1175, 1176, 1179, 1213, 1222, 1223, 1226, 1230, 1238, 1240.

### Supply and Movement

1053. American cotton being shipped to Indo-China. Jour. Com. [N. Y.] 183(14163): 9. Feb. 24, 1940. (Published at 63 Park Row, New York, N. Y.) 286.8 J82  
"Mills in Indo-China are reported to be using more American cotton due to shortages of Chinese."
1054. [Beach, R. O.] Reduced acreage costing Texans billion a year. Cotton Trade Jour. 20(13): 1, 3. Mar. 30, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Extracts from address before the 29th annual convention, Texas Cotton Association, Galveston, March 29-30, 1940.  
Also in Cotton Digest 12(26): 11-13, 22-23, 26. Mar. 30, 1940.
1055. Brazilian cotton. Brazil 12(136): 16. Mar. 1940. (Published by American Brazilian Association, Inc., 17 Battery Place, New York, N. Y.)  
Brief review of the 1939 season.

1056. Brazilian crop late, rains are principal cause. Heat and humidity aid curuquere pest, trade outlook is foggy. Cotton Trade Jour. 20(9): 7. Mar. 2, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1057. [Buechel, F. A.] 5,000,000-bale crop era ended in Texas, view. Cotton Trade Jour. 20(10): 5. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Also in Cotton Digest 12(23): 5. Mar. 9, 1940.
1058. Caterson, Herbert. Cotton area put at 26,379,000 acres. Increase of 6% is probable, Fairchild publications estimate. Daily News Rec. no. 51, p. 14. Mar. 1, 1940. (Published at 8 East 13th St., New York, N. Y.) 286.8 N48
1059. The cotton forecast improvement scheme. Financ. News 8(7): 6, 15. Feb. 17, 1940. (Published at Yusuf Bldg., 43, Esplanade Road, Fort, Bombay, India) 286.8 F496  
A review of the final report of the Bombay Cotton Forecast Improvement Scheme, 1934-39 which has just been released by the Indian Central Cotton Committee.
1060. Cotton quotas. Carolina Co-op. 18(3): 1. Mar. 1940. (Published by the Carolina Co-operator Publishing Co., corner of Fayetteville and Cabarrus Sts., Raleigh, N. C.) 72.8 N81  
Editorial on "the fact that North Carolina farmers in 1939 failed by some 200,000 acres to plant their full quota acreage of cotton," and urging increased acreage this year.
1061. Dickson, A. M., and Ingram, Charles B. The one variety cotton export program. U. S. Dept. Agr. Div. Mktg. and Mktg. Agreements MS-151, 10pp., processed. Washington, 1940.  
Address delivered before the 41st annual convention, Association of Southern Agricultural Workers, Birmingham, Alabama, February 9, 1940.  
"The program endeavors to show by practical demonstrations and tests the advantages of standardized production, selling on quality, and improved methods of handling, which have for years been an approved policy, not only of



the various units of the Department of Agriculture concerned with cotton but also of a number of Experiment Stations and Extension Services in the cotton growing states."

Extracts in Cotton Trade Jour. 20(11): 5, 8. Mar. 16, 1940.

1062. A expansão algodoeira em São Paulo. Agricultura e Pecuaria 9(202): 1. Jan. 1940. (Published at Rua da Quitanda, 188, sobrado, Rio de Janeiro, Brazil) 9.2 Ag89

Cotton expansion in São Paulo.

1063. India. Indian central cotton committee. Receipts at mills in India of raw cotton classified by varieties, 1938-39 season. India. Indian Cent. Cotton Com. Statis. Leaflet no. 3, 2pp. Bombay, 1939.

Sixth issue, 1938-39.

1064. India. Indian central cotton committee. Stocks of Indian raw cotton held in India by the mills and the trade on 31st August 1939. India. Indian Cent. Cotton Com. Statis. Leaflet no. 2, 3pp. Bombay, 1939.

Sixth issue, 1938-39.

1065. India. Indian central cotton committee. Supply and distribution of the various types of Indian cotton during the season of 1937-38. India. Indian Cent. Cotton Com. Statis. Bul. 8, 29pp. Bombay, 1939. 72.9 In233S

1066. [Morhan, J. D.] Certificated stock may be increased. Cotton Digest 12(22): 10. Mar. 2, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822

1067. [Perkins, Milo] 1941 export subsidy favored by Perkins. Cotton Digest 12(24): 4. Mar. 16, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822

Extracts from testimony before the Senate Committee on Appropriations.

1068. Peruvian exports up, 77,139 tons in 1939. Cotton Trade Jour. 20(11): 6. Mar. 16, 1940. (Published at 810 Union St., New Orleans, La.) 72.3 C8214

"Exports of cotton from Peru during the

calendar year 1939 totaled 77,189 metric tons, or about 340,000 equivalent American bales, according to consular advices from Lima."

1069. Plan no subsidy this season, is Washington word. Wallace representative denies rumor cited by N. O. cotton exchange chief. Cotton Trade Jour. 20(11): 1. Mar. 16, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1070. Quaranta, Ferdinando. Ethiopia, an empire in the making. 120pp. London, P. S. King & son ltd., 1939. 280.19 Q2  
Bibliography, pp. 113-116.  
Cotton development, pp. 57-63.
1071. A safra algodoeira de 1938/1939. Ouro Branco 5(7): 16. Nov. 1939. (Published at R. Quintino Bocayuva, 54, Sao Paulo, Brazil)  
The cotton crop of 1938/1939.  
The quantity of each grade produced in Sao Paulo in 1938 and 1939 is given.
1072. See spots trend in certificated stocks increase. Spain reported dickering for 100,000 bales on long-term private credit. Cotton Trade Jour. 20(10): 5. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1073. Severance, J. L. Cotton growers place intended 1940 acreage at 24,618,000. Indicated plantings off 0.9% or 214,000 acres from 1939; crop preparations backward. Jour. Com. (N. Y.) 183(14155): 14. Feb. 14, 1940. (Published at 63 Park Row, New York, N. Y.) 286.8 J82
1074. Smallest South Texas cotton crop in many years forecast. Only limited area planted so far with lack of moisture, boll worm control measures among factors--Brownsville to Corpus Christi section late. Jour. Com. (N. Y.) 184(14178): 14. Mar. 13, 1940. (Published at 63 Park Row; New York, N. Y.) 286.8 J82
1075. State leads in quality cotton. Co-op. Farmer 18 (6 i. e. 7): 7. Feb. 1940. (Published at 219 1/2 East Capitol St., Jackson, Miss.) 280.23 C7892  
"Mississippi leads the South in production of quality cotton, according to J. W. Willis."

1076. U. S. Dept. of agriculture. Agricultural marketing service. Grade, staple length, and tenderability of cotton in the United States, 1938-39. 70pp., processed. Washington, 1940.

"This report covers the 1938-39 season, the eleventh consecutive season for which the Department has assembled and disseminated information on grade, staple length, and tenderability of the annual cotton crop and of the cotton carry-over as of August 1 in this country. In addition, it carried forward certain information contained in earlier publications and contains information on the grade, staple length, and tenderability of the cotton crop of 1938 and carry-overs of 1938 and 1939. Figures are included for the first time on the preparation of ginnings, the 1933 crop being the first one for which complete preparation statistics have been assembled."

1077. U. S. Dept. of agriculture. Agricultural marketing service. 1939 cotton grade and staple below level of preceding year. Tenderable grades and staples represented 92 per cent, compared with 94. Cotton Trade Jour. 20(12): 1. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

1078. U. S. Dept. of agriculture. Agricultural marketing service. Produce Egypt cotton with greatest care. Cotton Digest 12(23): 13. Mar. 9, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.32 C822

From a radio release.

Also in Cotton Trade Jour. 20(10): 1, 7. Mar. 9, 1940.

1079. U. S. Dept. of agriculture. Commodity credit corporation. Accept trade-in bids for 28,992 bales CCC cotton. Total swapping under exchange plan is brought to 95,101 bales. Cotton Trade Jour. 20(10): 1. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

Also in Cotton Digest 12(24): 12. Mar. 16, 1940.

1080. U. S. Dept. of agriculture. Commodity credit corporation. Swapped cotton, up to March 15, totals 123,335. Exchanges in first half of March came to 23,284, more being classed. Cotton Trade Jour. 20(13): 7. Mar. 30, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214



1081. U. S. Dept. of agriculture. Office of foreign agricultural relations. Cotton production in Morocco stimulated by wartime demand. U. S. Dept. Agr. Off. Foreign Agr. Relat. Foreign Crops and Markets 40(11): 308-309. Mar. 16, 1940. (Published in Washington, D. C.)  
1.9 St2F  
"Cotton production in French Morocco, heretofore conducted on an experimental basis, is expected to be considerably expanded as a result of French war needs, according to a report from American consul W. Q. Stanton at Casablanca."
1082. [Wassall, Harry W.] Fluctuating subsidy is harmful, says Wassall in survey of ills. Sales for export small since withdrawal, buyers awaiting restoration. Cotton Trade Jour. 20(12): 1, 6. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

See also Items nos. 955, 956, 964, 1025, 1026, 1045, 1051, 1088, 1097, 1165, 1173, 1183, 1184, 1206, 1207, 1208, 1214, 1217, 1218, 1220, 1230, 1239, 1240.

### Prices

1083. Fixed cotton yarn margins. Textile Mfr. 66(721): 13-14. Jan. 1940. (Published by Emmott & Co., Ltd., 31 King St., West, Manchester, 3, England) 304.8 T3126  
"The Minister of Supply through the Cotton Controller, has issued an Order and schedules fixing the margins to be added to defined raw cotton prices, to give the compulsory selling price of all counts and qualities of grey single cotton yarns except specialities."
1084. Inverted cotton future prices. Jour. Com. [N. Y.] 184(14169): 2. Mar. 2, 1940. (Published at 63 Park Row, New York, N. Y.) 286.2 J82  
Editorial stating that "as long as the cotton market continues to be dominated by the Government, the inverted futures price structure is likely to persist. It reflects the constant danger of modification or elimination of Government loans on cotton, or the possible sale of even small amounts of such cotton in the market."

1085. [Jacobs, W. P.] Arguments in favor of price reporting. Amer. Wool and Cotton Rptr. 54(8): 36. Feb. 22, 1940. (Published by Frank P. Bennett & Co., Inc., 530 Atlantic Ave., Boston, Mass.) 304.8 W38

Price reporting for the textile industry is advocated.

See also Items nos. 1025, 1026, 1040, 1045, 1051, 1173, 1230, 1232.

### Marketing and Handling Methods and Practices

1086. Factors hurting futures trading. Cotton Digest 12(25): 8. Mar. 23, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 266.32 C822

Editorial noting that farm legislation, the Commodity Exchange Act, and changing methods of handling cotton by the trade have affected futures trading.

1087. See foreign exchange conditions affecting many cotton countries. Cite First national bank of Chicago survey on present restrictions. Cotton Trade Jour. 20(9): 1, 2. Mar. 2, 1940. (Published at 310 Union St., New Orleans, La.) 72.8 C8214

1088. Thompson, John C. Praise ginner's cooperation for improved cotton. Texas ginner's ended hog-round buying, stand for better cotton. Cotton Trade Jour. 20(13): 8. Mar. 30, 1940. (Published at 310 Union St., New Orleans, La.) 72.8 C8214

See also Items nos. 1061, 1106, 1163, 1209, 1211, 1223

### Marketing Services and Facilities

1089. The age limit. Amer. Wool and Cotton Rptr. 54(8): 1, 37-38. Feb. 22, 1940. (Published by Frank P. Bennett & Co., Inc., 530 Atlantic Ave., Boston, Mass.) 304.8 W38

Editorial stating that "it doesn't take long to learn to be a cotton classer, to pull cotton... but it takes a great many years of actual carding and spinning experience and the actual handling and use of hundreds of thousands of pounds of cotton before a man can honestly claim that he

is really a good man--and you can't learn it in the schools; you can't read it out of books; you have actually got to get into the mill and spend years of time in practical production."

1090. CCC accepts bids for warehousing of 300,000 bales in New England. Seven successful bidders are listed, rates are 3 cents or less. Cotton Trade Jour. 20(12): 3. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Also in Cotton Digest 12(25): 4. Mar. 23, 1940.
1091. Colvin, Esther M., comp. Transportation of agricultural products in the United States 1920-June 1939; a selected list of references relating to the various phases of railway, motor, and water carrier transportation. Part 1. General transportation and transportation of agricultural products. U. S. Dept. Agr. Bur. Agr. Econ. Agr. Econ. Bibliog. no. 81, 250pp., processed. Washington, 1939.  
Cotton, pp. 101-105.
1092. Credits to Spain for 100,000 bales more are talked. Safeguards are sought for smaller shippers, and aid to U. S. firms. Cotton Trade Jour. 20(10): 1, 4. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1093. Engineer. Fire protection pays, verdict in 5 valley states. Expenditures for protection in central belt hold losses down. Cotton Trade Jour. 20(12): 3. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Construction of fire walls, etc. in warehouses is advocated.
1094. Engineer. Say fire losses at peak because of overcrowding. Warehouses storing loan cotton said to give examples of congestion. Cotton Trade Jour. 20(11): 3. Mar. 16, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1095. Fue creada la Camara algodonera del Peru. Argentine Republic, Junta Nacional del Algodon, Boletin Mensual no. 56, pp. 902-905. Dec. 1939. (Published in Buenos Aires, Argentina) 72.9 Ar3  
The Camara Algodonera of Peru was created.



1096. Loan extension of 1938 cotton likely, is view.  
No decision has been made regarding any further extension of maturity dates on such loans, says Rathell. Cotton Trade Jour. 20(12): 1, 6.  
Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1097. The market for cotton loan equities. Jour. Com. [N. Y.] 184(14178): 2. Mar. 13, 1940. (Published at 63 Park Row, New York, N. Y.) 286.8 J82  
Editorial stating that "the existence of a market for growers' equities in Government cotton loans makes it more difficult for the trade to determine how much cotton is actually for sale at any one time. It also poses a problem to the Government, since, unless the loans on the 1938 crop will be terminated at the end of the current season, those equities would remain in circulation and might affect the price at which the next crop could be sold."
1098. Publish new grade standards for SXP and Pima cottons. New American-Egyptian standards to go into full effect year hence. Cotton Trade Jour. 20(12): 8. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
The Agricultural Marketing Service of the U. S. Department of Agriculture has announced "revised grade standards for American-Egyptian Pima cotton and new grade standards for American-Egyptian SXP cotton."
1099. Purchase equities against loan swap. New export business at a standstill, Little Rock reports. Jour. Com. [N. Y.] 184(14178): 14. Mar. 13, 1940. (Published at 63 Park Row, New York, N. Y.) 286.8 J82  
"On the advance in future contracts the first half of the week the buying of loan equities increased slightly, but the demand was mostly for notes covering high grade cotton, which shippers bought in many instances to use in exchanging for low grades being offered by the Government out of the 1934 loan holdings."
1100. [U. S. Dept. of agriculture. Agricultural marketing service] August deadlines set for applying for free classing. Dates are advanced, as compared

with last season's which were tardy. Cotton Trade Jour. 20(12): 1, 5. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

Applications for free classing for organized cotton improvement groups must be received by August 1 except in a few areas.

Also in Cotton Digest 12(25): 4. Mar. 23, 1940.

1101. [U. S. Dept. of agriculture. Commodity exchange administration] Outlines equities of cotton firms. Put at 980,791 bales for 74 houses under 1938 crop loan with 587,943 repossessed. Jour. Com. 184(14176): 14. Mar. 11, 1940. (Published at 63 Park Row, New York, N. Y.) 286.8 J82  
Also in Cotton Digest 12(24): 12-13. Mar. 16, 1940.

See also Items nos. 1072, 1133, 1163, 1168, 1197, 1203, 1223.

#### Marketing Costs

1102. Ease war risk rates to Japan and Norway. Cotton Trade Jour. 20(12): 3. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Insurance rates were reduced this week.
1103. Freight for cotton to be shipped to the United Kingdom from the United States of America. Cotton [Manchester] 45(2196): 7. Jan. 27, 1940. (Published by the Manchester Cotton Assoc., Ltd., 411 Fourth Floor, Royal Exchange, Manchester, 2, England) 304.8 C826  
A circular of the Manchester Cotton Association Ltd. is referred to. "In view of the fact that freight is now payable in this country by the Importer and is a liability as from the date of sailing, attention is drawn to the fact that, in the event of the loss of the steamer, payment of freight has still to be made, and insurance against this possible loss is therefore advisable."
1104. [New Orleans joint traffic bureau] Ship Texas cotton to New Orleans at the Houston rate. Cotton Trade Jour. 20(13): 1. Mar. 30, 1940.

(Published at 810 Union St., New Orleans, La.)  
72.8 C8214

The new rates apply if the cotton is for  
reshipment.

1105. Skip non-capture clause in marine war-risk, is plan. Warranty consignee not on Franco-British black-list is required. Cotton Trade Jour. 20(12): 3. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

The insurance underwriters announce that, subject to withdrawal without notice, they offer to give consideration to applications for elimination of the non-capture clause on shipments insured for war risk to ports other than United Kingdom, Mediterranean and Russian.

1106. Warehousemen stage risk meet at Gotham, move on Washington. Postore 7/8 base for cotton risks, is tentative plan. "Double premium" evil is discussed, but without prospect of change. Cotton Trade Jour. 20(12): 1, 8. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

The question as to whether "insurance should be based on 7/8 middling as in former seasons, or on 15/16 as directed by the underwriters" was discussed at a meeting of interested persons held at the New York Cotton Exchange.

See also Item no. 1034.

### Cooperation in Marketing

1107. Cooperativas algodonerías chaqueñas. Asamblea realizada en Presidencia Roque Saenz Peña durante los días 19 y 20 de Noviembre. Argentine Republic. Junta Nacional del Algodón. Boletín Mensual no. 56, pp. 875-879. Dec. 1939. (Published in Buenos Aires, Argentina) 72.9 Ar3

Chaqueñas cotton cooperatives. Meeting held in the Presidency Roque Saenz Peña, November 19 and 20.

1108. [Staple cotton cooperative association] Association reserves. Staple Cotton Rev. 18(2): 1-3. Feb. 1940. (Published by the Staple Cotton Cooperative Association, Greenwood, Miss.) 72.8 St22



UTILIZATIONFiber, Yarn and Fabric Quality

1109. British attacking vexed problem of moisture content. Propose tentative standard for determination of deviation from normal. Cotton Trade Jour. 20(10): 6. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

1110. Göhde, K. Neue methodik zur schnellen wasser-gehaltsermittlung von papier und zellstoffderi-vaten unter innehaltung der gewohnten genauig-keiten. Papier-Fabrikant 37(37): Tech.-Wiss. Teil 320-324. Sept. 8, 1939. (Published at Oranienstrasse 140/142, Berlin, S42, Germany) 302.8 P197

New method for the rapid determination of water percentage in paper and cellulose products within the usual limits of accuracy.

"A semi-automatic piece of apparatus is described, with diagrams, for the rapid determina-tion of water in paper and cellulose products. It consists essentially of five parts, (1) an electrically heated drying chamber fitted with (2) an automatic temperature regulator, (3) an analytical balance, (4) a hot-air circulation device and (5) a projection scale for reading off the values. Desiccators and separate analytical balances are not required. Ten different samples can be treated simultaneously. Drying curves obtained for various materials are submitted. - C." - Brit. Cotton Indus. Res. Assoc. Sum. Cur. Lit. 20(2): 31. Jan. 31, 1940.

1111. Hermans, P. H. Ansatz zu einer rationellen theorie des kraft-dehnungsdiagrammes der hydratzellulose und deren experimentelle prüfung. Kolloid Zeitschrift 88(2): 172-182. Aug. 1939. (Pub-lished at Residenzstrasse 32, Dresden-B1., Germany) 384 Z315

Footnote references.

Appendage to a rational theory of the force-elongation diagram of hydrate cellulose and its experimental examination.

"With the help of the author's proposed building scheme which is almost identical in all essential points with a similar one developed by O. Kratky, a theory of the deformation changes

is developed in the case of the plausible assumption that a mutual shifting of the elongated elementary particles (micelles, thread molecules) in the direction of the long axis can take place only very difficultly, on the other hand relatively easily in a direction at right angles thereto, on account of the principle of progressive removal of the force of cohesion proposed by the author already earlier..." - Extract from author's summary translated by C. M. Conrad.

1112. Hermans, P. H., and Platzek, P. Beiträge zur kenntnis des deformationsmechanismus und der feinstruktur der hydratzellulose. IX. Über die theoretische beziehung zwischen quellungsanisotropie und eigendoppelbrechung orientierter fäden. Kolloid Zeitschrift 88(1): 68-72. July 1939. (Published at Residenzstrasse 32, Dresden-Bl., Germany) 384 Z315

Footnote references.

Contribution to the knowledge of the deformation mechanism and fine structure of hydrate cellulose. IX. Concerning the theoretical relation between swelling anisotropie and specific double refraction of oriented fibers.

"A general theoretical relation between swelling anisotropie and specific double refraction of oriented fibers is derived and a formula likewise given for the quantitative connection of this experimentally accessible magnitude with an average orientation angle of the micelles. These relations are derived without the preliminary assumption of any special deformation mechanism and, therefore, can be applied independent of any such. Through their combination with definite deformation model they can also be connected with the degree of elongation. The course of the average orientation angle as a function of the elongation is calculated for the deformation model of the 'Kratky Chain' (2nd Kratky limiting case)." - Author's Summary translated by C. M. Conrad.

1113. Hermans, P. H., and Booy, J. de. Beiträge zur kenntnis des deformationsmechanismus und der feinstruktur der hydratzellulose. X. Die Kratky'sche kette als rechenmodell für den deformationsmechanismus der hydratzellulosegele. Kolloid

Zeitschrift 88(1): 73-78. July 1939. (Published at Residenzstrasse 32, Dresden-B1., Germany) 384 Z315

Footnote references.

Contribution to the knowledge of the deformation mechanism and fine structure of hydrate cellulose. X. The Kratky chain as a reference model for the deformation mechanism of hydrate cellulose gels.

"The theoretical basis of the Kratky Chain model (2nd Kratky limiting case) for the quantitative description of the deformation process is discussed and extended. It is shown that the results of the evaluation of the theoretical relation for the swelling anisotropy and specific double refraction as a function of the degree of elongation is valid, independent of special assumptions concerning the relative elongation velocity of the elementary particles in the elongation. It ought to be assumed, therefore, that each kind of stretching of the chain model in this relation is practically equally effective..." - Extract from author's summary translated by C. M. Conrad.

1114. Identifying cotton by microscope. Fibers can be identified and percentages determined--diameter and length of staple important factors--comparisons of Pima, American, China and Indian cottons. Amer. Wool and Cotton Rptr. 54(9): 9-10, 27. Feb. 29, 1940. (Published by Frank P. Bennett & Co., Inc., 530 Atlantic Ave., Boston, Mass.) 304.8 W88

1115. Kratky, O., and Platzek, P. Ueber den mizellaren aufbau und die deformationsvorgänge bei faserstoffen. VIII. Weitere optische untersuchungen an den Hermans'schen hydratzellulosefäden und an azetylzellulosefilmen. Kolloid Zeitschrift 88(1): 78-88. July 1939. (Published at Residenzstrasse 32, Dresden-B1., Germany) 384 Z315

Footnote references.

Concerning the micellar structure and the deformation changes in fibrous substances. VIII. Further optical investigations on the Herman hydrate cellulose fibers and on acetyl cellulose films.

"The double integral already earlier communicated for the course of specific double refrac-



tion with increasing elongation of an ideal loose net is mathematically evaluated and the results graphically presented. Therewith each factor designated by  $f$  is calculated as a function of the degree of elongation with which one must multiply the end value of a double refraction or complete orientation of the micells in order to undertake the computation of the incomplete arrangement at smaller elongations..." - Extract from author's summary translated by C. M. Conrad.

1116. Russell, W. Walker, and Woodberry, Norman T. Fluidity of cotton in dimethyl dibenzyl ammonium hydroxide. Measure of cotton degradation. Indus. and Engin. Chem. (Analytical ed.) 12(3): 151-154. Mar. 1940. (Published by American Chemical Society, Mills Bldg., Washington, D. C.) 381 J825A

Literature cited, p. 154.

"The different samples of bleached cotton cellulose examined were found to dissolve readily in dimethyl dibenzyl ammonium hydroxide (commercially known as Triton F) to produce solutions whose fluidities (or viscosities) are a measure of the extent to which the cellulose has been modified. For the celluloses studied the Triton fluidities are very nearly a tenth, and the Triton specific viscosities very nearly twice the corresponding cuprammonium hydroxide values. The Triton method is simpler and more rapidly carried out than standard cuprammonium methods." - Summary.

1117. The Shirley moisture meter. Rapid measurement by electrical resistance of moisture regain of cotton, cotton yarn and other materials. Textile Mfr. 66(781): 26. Jan. 1940. (Published by Emmott & Co., Ltd., 31 King St., West, Manchester, 3, England) 304.8 T3126

1118. Standards for purified cotton. Chem. and Chem. Engin. News, News ed. 18(1): 13. Jan. 10, 1940. (Published by American Chemical Society, Mills Bldg., Washington, D. C.) 381 J825N

"The Board of Trustees of the U. S. Pharmacopoeial Convention has announced that the enforcement of the new U. S. P. standards for purified cotton (absorbent cotton) recently issued in the Second U. S. P. XI Supplement will not be effective until July 1, 1940."

1119. Tansley, L. B. Practical testing of textile fabrics to specification. Textile Weekly 25(624): 191-192, 195. Feb. 16, 1940. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127  
Lecture to the British Association of Managers of Textile Works, January 27, 1940.

1120. Thaysen, A. C., Bunker, H. J., Butlin, K. R., and Williams, L. H. The effect of climatic exposure on textile fibres and fabrics. Ann. Appl. Biol. 26(4): 750-781. Nov. 1939. (Published by Cambridge University Press, Bentley House, London, England) 442.8 An72  
References, pp. 780-781.

"Various textile fabrics were exposed to a wide range of climatic conditions, to obtain information regarding the participation of micro-organisms in the 'mildewing' of fabrics and the conditions under which 'mildewing' and other deterioration of fabrics would occur. It was desired also to ascertain the types of organisms which are destructive to textiles, the nature of the damage caused, and methods by which the damage could be avoided or minimised. The results are shown in tables and graphs. - L." - Textile Inst. Jour. 30(12): A789. Dec. 1939.

1121. Viktorov, P. P., and Fridlyand, G. I. [Effect of natural admixtures in cellulose on the dyeing properties of cotton fiber. II. The content of pectic substances in cotton fiber.] Zhurnal Prikladnoi Khimii 12(1): 113-123. 1939. (Published in Moskva, U. S. S. R.) Geolog. Survey S(570) Sa42p

Bibliography, p. 123.

In Russian.

"The methods for the detn. of pectic substances were investigated... Less mature cotton is higher in pectic substances and American cotton contains less pectic substance than Egyptian cotton of the same maturity. The best American cotton contains 0.98% of pectic substances. The extractive substances contg. no N contained about 50% of pectic substances. 28 references. - A. A. Podgorny." - Chem. Abs. 33(16): 6602-6603. Aug. 20, 1939.

1122. Viktorov, P. P., and Ivanova, V. E. [Effect of natural admixtures in cellulose on the dyeing properties of cotton fiber. III. Removal of pectic substances from cotton by fermenting and the effect of this treatment on the adsorptive properties of fiber.] Zhurnal Prikladnoi Khimii 12(2): 251-261. 1939. (Published in Moskva, U. S. S. R.) Geolog. Survey S(570): Sa42p

In Russian. French summary, p. 261.

"Taka-diastrase, 'Pectinol' (German patented prepn.), Penicillium niger, Penicillium prep'd. by the biochem. lab. of the Research Inst. of Primary Treatment of the Novolubyanykh Cultures (U. S. S. R.) and cultures of Bacillus macerans and B. felsinus were used by fermenting and removal of the pectic substances from cotton fibers. Removal of pectic substances was most rapid and complete with B. felsinus; next best was B. macerans. The other organisms had very slight action. The fermentation had no chem. effect on the cellulose. The fibers freed from pectic substances by fermentation adsorbed the same amts. of dye as those treated by the standard chem. method. Fats and wax-like substances not removed by the fermentation had no effect on the capillary properties of fiber; N-cont'g. substances had a slight effect. A decrease of albumin and ash of the cellulose was caused by their soln. in the liquid of the ferment solns., but was not caused by the direct action of the ferments. Seventeen references. - A. A. Podgorny." - Chem. Abs. 33(16): 6603. Aug. 20, 1939.

1123. Viktorov, P. P., and Sokolova, N. M. [Effect of natural admixtures in cellulose on the dyeing properties of cotton fiber. IV. The effect of removal of nitrogen-containing substances of cotton on its adsorptive properties.] Zhurnal Prikladnoi Khimii 12(3): 440-450. 1939. (Published in Moskva, U. S. S. R.) Geolog. Survey S(570) Sa42p

Bibliography, pp. 449-450.

In Russian. French summary, p. 450.

"The treatment of cotton fibers with trypsin and pepsin in neutral and weakly alk. solns. decreased the N content by 40-50%. A weakly alk. soln. itself decreased the N content somewhat. EtOH decreased the N content by 50% but



$C_6H_6$  had no effect. Treatment of fibers with EtOH and then with trypsin at the best gave the same results as trypsin alone. The adsorptive properties of fibers treated with the enzymes increased somewhat, but this cannot be entirely related to the decrease of N in the fiber. The removal of albumins had only a secondary effect on the capillary properties of the fibers. Eighteen references. - A. A. Podgorny." - Chem. Abs. 33(16): 6603. Aug. 20, 1939.

1124. Vreeswijk, A. C. van. Jute, cotton, and flax yarns: tendering by light and heat. Textile Inst. Jour. 30(11): A721. Nov. 1939. (Published at 16 St. Mary's Parsonage, Manchester, 3, England) 73.9 T31

From Med. Rijksvoorlichtingsdienst Vezelhandel no. 58, 12pp., 1939, which was reprinted from Polytechnisch Weekblad, 1939, 33, nos. 5 and 8.

"The influence of daylight and the light of the Fugitometer lamp, and also of heat has been tested on various yarns, more particularly of jute. The tabulated results show some superiority of Java jute over material from British India. Results with cotton and flax yarns indicate that their resistance to heat ( $125^{\circ}C.$ ); but not to light, is lowered by bleaching. The pH of the aqueous extracts of all the exposed yarns shifts somewhat to more acid values on exposure. - C."

1125. Wall, C. L. Properties of fibres. Textile Mfr. 65(779): 496-498, 500. Nov. 1939. (Published by Emmott & Co., Ltd., 31 King St. West, Manchester, 3, England) 304.8 T3126

"The strength, extensibility, plasticity, etc., of fibres is considered from the aspect of possibilities arising from the potential energies between the atoms of various elements and with different arrangements of atoms."

1126. Wall, C. L. Properties of fibres--III. Further considerations of different atomic and group arrangements in fibres which account for the distinctions in properties of fibres and other materials and also of yarns and fabrics. Textile Mfr. 66(781): 28-29, 34. Jan. 1940. (Published by Emmott & Co., Ltd., 31 King St., West, Manchester, 3, England) 304.8 T3126

1127. Webb, Robert W. Influence of locality of growth and season on the fiber and spinning properties of two varieties of cotton, crop years of 1936 and 1937. 18pp., processed. [Washington] U. S. Dept. of agriculture, Agricultural marketing service, [1940]

Address before Committee D-13 (Textiles), American Society for Testing Materials, Charlotte, N. C., March 13-15, 1940.

1128. White, Gladys R. Specifications for cotton broadcloth. Jour. Home Econ. 32(2): 99-100. Feb. 1940. (Published by American Home Economics Association, Mills Bldg., Washington, D. C.) 321.8 J82

See also Items nos. 937, 938, 939, 940, 1133, 1204, 1215, 1221, 1232, 1233, 1234.

### Technology of Manufacture

1129. Draper, Allan. The spinning and doubling of coarse cotton yarns. Methods of control for maximum efficiency. Textile Weekly 25(625): 220, 222. Feb. 23, 1940. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127

Lecture to the British Association of Managers of Textile Works, February 10, 1940.

To be continued.

1130. Fehlerhaftes baumwollgarn vom selfaktor und seine ursachen. Klepzig's Textil-Zeitschrift 42(46): 681-683; 42(47): 697-698; 42(48): 715-716; 42(49): 733-734. Nov. 15, Nov. 22, Nov. 29, Dec. 6, 1939. (Published by L. A. Klepzig, Taubchenweg 23, Leipzig C 1, Germany) Bur. Stand.

Faulty cotton yarn from self-acting mule and its cause.

"The causes and prevention of various faults in cotton yarn and faulty cop formation on self-acting mules are studied in detail and notes are given on the operation, care, cleaning and oiling of mules. Twist, production, and other calculations are illustrated by examples and the spinning of staple fibre yarns on mules is briefly discussed. - C." - Brit. Cotton Indus. Res. Assoc. Sum. Cur. Lit. 20(3): 47. Feb. 15, 1940.

1131. Field, E. G. Checking spindle speeds. Cotton [Atlanta] 104(3): 48-49. Mar. 1940. (Published by W. R. C. Smith Publishing Co., Grant Bldg., Atlanta, Ga.) 304.8 C823
1132. Roller cloth weights. "Uncle Jack" discusses a useful practical point in spinning 10's to 12's. Textile Weekly 25(627): 288, 291. Mar. 8, 1940. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127  
The author gives "the weights of roller cloth of the standard quality supplied by the leading makers to be used in the covering of top leather rollers."
1133. Roy, Kenneth B. Electric eye sorts cotton. South. Agr. 70(3): 36. Mar. 1940. (Published at 1523 Broadway, Nashville, Tenn.) 6 So83  
An instrument for sorting cotton fiber developed at the laboratories of the University of Arkansas College of Agriculture is commented upon--also a mechanical combing machine.

#### Technology of Consumption

1134. Cotton bagging use ordered by CCC. Cotton Digest 12(22): 10. Mar. 2, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
"The Commodity Credit Corporation...will specify that cotton bags must be used for sacking Austrian winter peas and hairy vetch accepted as collateral by the CCC in connection with the 1940 seed loan program in the Pacific Northwest states."  
Also in Cotton Trade Jour. 20(10): 5. Mar. 9, 1940.
1135. Cotton bags. Cotton Trade Jour. 20(10): 2. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Editorial on the announcement that "Austrian winter peas and hairy vetch...seed which is accepted as collateral for loans by the Commodity Credit Corporation must be packaged in cotton."
1136. Cotton flunks a test. It isn't valuable in asphalt roads, but other new uses are found to be successful and sound. Business Week no. 547,



pp. 20, 24. Feb. 24, 1940. (Published by McGraw-Hill Publishing Co., Inc., 330 West 42nd St., New York, N. Y.) 280.8 Sy8

1137. Cotton roads detour. Farm Jour. and Farmer's Wife 63(9): 14. Sept. 1939. (Published at Washington Square, Philadelphia, Pa.) 6 F2212

"E. F. Kelly, chief of the testing division, [Bureau of Public Roads] reported that returns from 15 states show no difference in wear between cotton-bound and ordinary surfacings."

1138. Cotton sacks. Cotton Digest 12(24): 5. Mar. 16, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822

"Charles K. Everett of the Cotton-Textile Institute reports that the first trade experiments with cotton sacks for packing sulphate of ammonia indicate the possibilities of opening up for cotton another new market of considerable proportions."

1139. Cotton uses more vital to South than war's outcome. Textile Bul. 57(12): 41. Feb. 15, 1940. (Published by Clark Publishing Co., 218 West Morehead St., Charlotte, N. C.) 304.8 So82

Brief report of address of E. J. Cheatham, head of the cotton processing division of the Southern Regional Research Laboratory, before a group of Southern agricultural leaders.

1140. Marr, Robert A., Jr. The cost of curing concrete pavements with cotton mats. Pub. Roads 20(11): 215-216, 218-219. Jan. 1940. (Published by U. S. Federal Works Agency, Public Roads Administration, Washington, D. C.) 1 R53P

1141. U. S. Dept. of Agriculture. Bureau of home economics. Bureau designs cotton hosiery, full-fashioned, all occasions. Cotton Trade Jour. 20(12): 1, 8. Mar. 23, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

Also in Staple Cotton Rev. 18(3): 5-6. Mar. 1940.

1142. Wasson, S. Deane. Fire-proof cotton opens new market. Amer. Cotton Grower 5(10): 12. Mar. 1940. (Published at 535 Gravier St., New Orleans, La.) 72.8 Am32

Use of treated cotton for sound and temperature insulation is described.

See also Items nos. 1128, 1230.

COTTONSEED AND COTTONSEED PRODUCTS

1143. Athavale, V. T., and Jatkar, S. K. K. Hydrogenation of oils by the continuous process. Part II. Hydrogenation of cottonseed and olive oils by nickel carbonate--kieselguhr catalyst. Indian Inst. Sci. Quart. Jour. 1(4): 285-293. Oct.-Dec. 1938. (Published in Bangalore, India) 513 In23

"The nature of the yield-rate curves with different oils hydrogenated with the same catalyst depends on the compn. of the oil. Calcs. of the velocity coeff. by the unimol. formula do not give concordant results. These coeffs. when plotted against temps. show irregularity in the curves at 125°, 150°, 180° and above 200° depending on the compn. of the oil; max. activity is at 150° and above 200° with olive oil and at 150° for cottonseed oil. The velocity of olein hydrogenation is at a max. at 150° while that of linolein is at a max. at 125°. At temps. above 160° the tendency of linolein to change straight to stearin increases, because the olein formed hydrogenates with equal velocity...- E. Scherubel." - Chem. Abs. 33(16): 6628. Aug. 20, 1939.

1144. Bass, Lawrence W., and Olcott, H. S. A chronology of cottonseed technology. Chem. and Chem. Engin. News, News ed. 18(4): 139-142. Feb. 25, 1940. (Published by American Chemical Society, Mills Bldg., Washington, D. C.) 381 J825N Bibliography, p. 142.

1145. Chernukhin, A. [Solubility of hardened cottonseed oil in dichloroethane.] Masloboino Zhirovoe Delo no. 6, pp. 27-28. Nov.-Dec. 1938. (Published in Moskva, U. S. S. R.) Libr. Cong. TP1 .M3 Literature, p. 28. In Russian.

"The solubility in  $C_2H_4Cl_2$  of the solid is of the liquid glycerides of the hardened oil. Extraction is best conducted at 70°. - R. T." - Soc. Chem. Indus. Jour. 58(2): 170. Feb. 1939.

1146. Fitz Simmonds, A. L. Seed grading may come to Texas and Oklahoma. Cotton and Cotton Oil Press 41(6): 32. Mar. 16, 1940. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822

The possibility of extending the cottonseed-grading work of the Agricultural Marketing Service of the U. S. Department of Agriculture is noted.

1147. Fuchs, Victor R. Quality and prices of cotton linters produced in the United States, 1933-38. 27pp., processed. Washington, U. S. Dept. of agriculture, Agricultural marketing service, 1940.

1148. Ipatov, A. [Albumins of cottonseed oil cake] Masloboino Zhirovoe Delo 12(4): 189-190. Apr. 1936. (Published in Moskva, U. S. S. R.) Libr. Cong. TFl.M3

In Russian.

"The nutritive val. of albumins of cottonseed oil cake was studied by freeing the meal from gossypol and oil with  $\text{Et}_2\text{O}$ , and by decomp. the albumins in the residue with pepsin and trypsin and by hydrolysis with 20%  $\text{H}_2\text{SO}_4$ . The results are discussed." - Soc. Chem. Indus. Jour. 58(2): 170. Feb. 1939.

1149. Julian, R. M. The mechanics of cottonseed meal. Oil Mill Gazetteer 44(9): 18. Mar. 1940. (Published in Wharton, Tex.) 307.8 O153

Definitions for suggested grades of cottonseed meal are given.

1150. Leach, G. C. Advantages of grading cottonseed. Cotton and Cotton Oil Press 41(6): 21. Mar. 16, 1940. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822

1151. Shealy, A. L., and Gratz, L. O. A comparison of sorghum silage, peanut hay and cottonseed hulls as roughages for fattening steers. Fla. Agr. Expt. Sta. Bul. 320, 10pp. Gainesville, 1938.

1152. Stone, L. T. The cottonseed that didn't go to market and the soybean that did. Cotton and Cotton Oil Press 41(6): 13-15. Mar. 16, 1940. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822

"For all practical purposes, a pound of



soybean oil displaces a pound of cottonseed oil. The phenomenal increase in soybean production as compared with the decrease in cottonseed production is shown" in tables.

1153. U. S. Dept. of agriculture. Agricultural marketing services: Linters development under spur of 1914-1918 war demand is told. Radio discussion relates present uses for each of several grades. Cotton Trade Jour. 20(11): 7. Mar. 16, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Extracts in Cotton Digest 12(24): 10. Mar. 16, 1940.
1154. U. S. Dept. of agriculture. Bureau of agricultural economics. Recent trend in production and consumption of oleomargarine. U. S. Dept. Agr. Bur. Agr. Econ. Fats and Oils Situation no. 37, pp. 5-22. Mar. 15, 1940. (Published in Washington, D. C.)  
Tables show quantity of cottonseed oil used in margarine in the United States and foreign countries.
1155. Woodson, P. F. How cottonseed products are affected by adding settling and foots to the meats. Oil Mill Gazetteer 44(9): 13-15. Mar. 1940. (Published in Wharton, Tex.) 307.8 O153  
Address presented before the Tri-States Oil Mill Superintendents Association, March 2, in Memphis.
1156. Wolfenden, G. D. Why not heat exchange, wash and centrifuge crude cottonseed oil? Cotton and Cotton Oil Press 41(6): 34. Mar. 16, 1940. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822  
Questions regarding the refining of cottonseed oil are suggested.
1157. Yerkes, L. A., Jr. Rayon for tires. India Rubber World 101(3): 41-45, 49. Dec. 1, 1939. (Published at 420 Lexington Ave., New York, N. Y.) 305.8 In2  
"Du Pont 'Cordura' rayon is derived entirely from cotton linters." The processing of linters is described.
- See also Items nos. 949, 962, 963, 972, 997, 1007, 1161, 1169, 1170, 1199, 1200, 1201, 1212, 1221, 1232.

LEGISLATION, REGULATION, AND ADJUDICATIONLegislation

1158. Certificate plan details are told by Evans of AAA. House committee hears of project for 1 to 5 cent tax on cotton. Cotton Trade Jour. 20(9): 1. Mar. 2, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1159. Fleming [Lamar] derides new cotton tax plan. Cotton Digest 12(23): 10. Mar. 9, 1940. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
The marketing certificate bill and the Doxey bill are discussed briefly.
1160. Jamieson, Edward. Cotton. Cotton Trade Jour. 20(10): 1, 5. Mar. 9, 1940. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
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"A finding of justification as to proposed rail rates on cotton linters, in carloads, from Southern Arkansas to New Orleans, La., has been made by the Commission, division 2, in I. and S. No. 4701, cotton linters, Arkansas to New Orleans. The order suspending the proposed schedules was ordered vacated as of March 25."

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See also Item no. 1010.



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